

SS7 Development Package for Windows

Release Notes for V2.01

1. Overview

This release adds support for host systems using the SG430 Signalling Gateway. It includes SIGTRAN SCTP protocol software and a configuration utility SCU to configure the SIGTRAN SCTP and M3UA protocol stacks.

The release also includes additional host software for use in conjunction with the SIU131, SIU231 and SIU520 Signalling Interface Units, namely client software for the Distributed Transaction Server (DTS) functionality and the INAP API library for linking with the user's application when using the INAP protocol.

This release is fully backwards compatible with the previous release.

2. New Functionality

2.1 Support for SG430 hosts

This release includes new binaries (sctp.exe, sctpd.exe and scu.exe) for use in conjunction with the Intel® NetStructure™ SG430 Signalling Gateway. The use of these binaries is described in a separate document – *SCU User Guide*. In addition to the binaries supplied as part of this release the user will need to purchase a licence to run the M3UA SIGTRAN binary and any additional user part software as these are not part of this development package.

2.1.1 sctp & sctpd binaries

The sctp.exe and sctpd.exe binaries provide a software implementation of the SIGTRAN Stream Control Transmission Protocol (SCTP) as specified in the IETF specification RFC2960. Full details of the modules are provided in the *SCTP Programmer's Manual U01STN*.

NOTE: The sctpd.exe binary must be run by a user with administrator privileges.

2.1.2 scu configuration utility

The SCU binary is a utility that facilitates the configuration of the SIGTRAN hosts for use in conjunction with the SG430. Full details on the use of this utility are given in the *SCU User Guide - U03SGW*.

2.2 dtc binary

This release includes a new binary – dtc.exe for use in conjunction with the SIU131, SIU231 and SIU520 Signalling Interface Units when using the Distributed Transaction Server mode of operation.

The use of this binary is documented in the appropriate SIU documentation.

2.3 INAP API library

This release includes a new library – in_api.lib (for Microsoft compilers) and in_apib.lib (for Borland compilers) for use in conjunction with the INAP protocol. This library should be linked in with the user's application. It provides a functional interface to the INAP protocol as described in the INAP Programmer's Manual.

3. Changes

3.1 ssds enhancements

Two corrections have been made in the ssds binary for interfacing with the SPC14, SPC12S and CPM8 cards.

Occasionally under heavy load when ssds was running on a very fast processor a fault condition would occur where ssds was repeating a message sent to the board multiple times. When the problem occurred it would usually cause the board to reset. The problem has been corrected.

An internal problem was identified that could cause the hot swap mechanism to become unreliable once ssds had been running for an extended period. This has now been corrected.

3.2 ssd_poll correction

The previous release contained an error in the ssd_poll binary that could result in ssd_poll running continually in the background thereby consuming all available spare CPU time. This release corrects the problem.

Intel Corporation
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SS7 Development Package for Windows

Release Notes for V2.02

1. Overview

This release is a maintenance release to offer support for the SIGTRAN SCTP CRC32 checksum. It includes other minor functional enhancements as detailed below and a change to the product branding to be part of the range of Intel® NetStructure™ SS7 Products.

The release is fully backwards compatible with the previous release.

2. New Functionality

2.1 SCTP CRC32 checksum

The SCTP module has been extended to support the CRC-32 checksum in addition to the existing Adler-32 checksum. The SCU configuration tool now configures SCTP to use CRC32 instead of Adler-32. These changes reflect the change in the specification of SCTP as defined as RFC 3309.

3. Changes

3.1 INAP_API library removed from release

The INAP_API library is no longer included in this release. Instead it can be found in the User Part Development Package.

3.2 s7_play binary discards white space in script files.

The s7_play binary has been upgraded so as to discard white space in the script files it uses. This allows scripts to be written with more flexibility in their appearance.

3.3 s7_mgt – extension of capabilities

The capacity s7_mgt has been extended to support 684 circuit groups and 128 MTP routes.

3.4 s7_log supports additional TCAP error codes

s7_log now decodes the following additional TCAP error events: TCPSWE_DBUF_LOW, TCPSWE_NO_DBUF & TCPSWE_DBUF_ABMT.